

**WHAT IS CLAIMED IS:**

1. A method of edge enhancement, comprising the acts of:
  - 5 extracting a high frequency portion of data representative of relative light intensity of a pixel;
  - determining a correction coefficient based upon a sign and a value of the extracted high frequency portion of the data, the sign being indicative of a relation between the relative light intensity of the pixel and that of pixels surrounding the pixel; and
  - 10 correcting the data based upon the correction coefficient.
2. The method of edge enhancement according to claim 1 wherein said sign is positive when a value of the data representative of the relative intensity of the pixel is larger than that of surrounding pixels.
- 15 3. The method of edge enhancement according to claim 1 wherein said sign is negative when a value of the data representative of the relative intensity of the pixel is smaller than that of surrounding pixels.
- 20 4. The method of edge enhancement according to claim 1 wherein the data representative of the relative light intensity of the pixel is obtained from an input signal representative of color green (G) in RGB input signals.
- 25 5. The method of edge enhancement according to claim 1 wherein a predetermined set of values is stored in a lookup table for selecting the correction coefficient value.
6. A system for edge enhancement, comprising:
  - 30 an extraction unit for extracting a high frequency portion of data representative of relative light intensity of a pixel;

a determination unit connected to said extraction unit for determining a correction coefficient based upon a sign and a value of the extracted high frequency portion of the data, the sign being indicative of a relation between the relative light intensity of the pixel and that of pixels surrounding the pixel; and

5 a correction unit connected to said determination unit and said extraction unit for correcting the data based upon the correction coefficient.

7. The system for edge enhancement according to claim 6 wherein said sign is positive when a value of the data representative of the relative intensity of the pixel is larger than that of surrounding pixels.

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8. The system for edge enhancement according to claim 6 wherein said sign is negative when a value of the data representative of the relative intensity of the pixel is smaller than that of surrounding pixels.

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9. The system for edge enhancement according to claim 6 wherein the data representative of the relative light intensity of the pixel is obtained from an input signal representative of color green (G) in RGB input signals.

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10. The system for edge enhancement according to claim 6 wherein said determination unit further comprises a look up table storing a predetermined set of values for selecting the correction coefficient value.

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